

DEPARTMENT OF THE ARMY

SEATTLE DISTRICT, CORPS OF ENGINEERS P.O. BOX 3755 SEATTLE, WASHINGTON 98124-3755

Environmental Resources Section

Dear Interested Party:

The draft Federal Environmental Assessment (EA) for the 2008 Callahan Creek Levee Rehabilitation Project, Lincoln County, Montana is enclosed for your review. Also enclosed is a draft Finding of No Significant Impact. Federal, state and local agencies, Indian tribes, and local interest groups have been furnished this document. The EA is also available online at http://www.nws.usace.army.mil/ers/doc_table.cfm

The draft EA describes the alternatives, impacts and any necessary mitigation measures associated with the rehabilitation of an existing section of levee located on Callahan Creek near the City of Troy, Montana. The U.S. Army Corps of Engineers, Seattle District (Corps) and Lincoln County, as the non-federal sponsor, propose to rehabilitate approximately 300 feet of levee. The proposed project would include establishment of a rock toe along approximately 300 feet of bankline.

The 30-day public review period for the draft EA will end on 9 May 2008. You are invited to send written comments to Mr. Jeffrey F. Dillon, U.S. Army Corps of Engineers, Environmental Resources Section, Post Office Box 3755, Seattle, Washington 98124-3755. For questions, please contact Mr. Dillon at 206 764-6174.

Sincerely,
Rivally Kert

Ronald J. Kent

Acting Chief, Environmental Resources Section

Enclosure

2008 Callahan Creek Levee Rehabilitation

Lincoln County, Montana



Source: USACE 2007



2008 Callahan Creek Levee Rehabilitation Lincoln County, Montana

Responsible Agency: The responsible agency for the levee rehabilitation project is the U.S. Army Corps of Engineers, Seattle District.

Please send questions and requests for additional information to:

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1. Introduction

1.1. Background

The 1,450 foot (900 feet upstream and 550 downstream of Highway 2) Callahan Creek levee is located along the left bank of Callahan Creek approximately 0.4 miles upstream of its' confluence with the Kootenai River, near the City of Troy, in Lincoln County, Montana. The levee protects public use land and facilities including 2 structures and a railroad bridge. The project is believed to have been constructed by the State of Montana prior to 1974.

The levee is constructed of earthen materials. The riverward slope is armored with material consisting of 18 to 24 inch nominal diameter material except for a 300 ft area where flood fight efforts in 2006 resulted in placement of material ranging from 6 inches to 18 inches nominal diameter. The existing undamaged levee prism has a riverward slope of approximately 2H:1V (horizontal to vertical) and a slope of 2H:1V on the landward side. The levee is approximately 3 to 5 feet in height. The top width ranges from 15 to 20 feet and is surfaced with gravel. Lincoln County performs annual maintenance including the periodic removal of vegetation and thinning or removal of trees that would jeopardize levee integrity.

This levee protects public infrastructure and facilities, and a railroad bridge. It is estimated that the undamaged levee will be overtopped with a flood event corresponding to an event greater than a 10-year return period.

1.2. Purpose and Need

The purpose of the proposed PL 84-99 rehabilitation is to reestablish authorized levels of protection and improve on emergency repairs conducted by Lincoln County. During the November 2006 event this segment of levee was overtopped and breached. Repairs were completed by Lincoln County during emergency flood fighting to seal a breached segment of levee. There is currently 300 linear feet (LF) of levee without sufficient toe material to provide an equivalent pre-flood level of protection at the Callahan Creek levee. The thalweg of the channel at the project site is located against the damaged section resulting in high velocities caused by flow impingement. It is highly possible the segment of levee repaired will erode without sufficient protection to prevent scouring.

The proposed repair would consist of reestablishing the toe protection and replacing undersized or lost riprap with new material.

1.3. Location

The project is located on the right bank of Callahan Creek outside the City of Troy, Montana at River Mile 0.28 (Section 13, T31N, R34W).

1.4. Authorization

The proposed Callahan Creek Levee Rehabilitation is authorized by Public Law 84-99 (33 USC 701n). Corps rehabilitation and restoration work under this authority is limited to flood control works damaged or destroyed by flood. The rehabilitated structure would be designed to provide the same degree of protection as the original structure. The Corps has determined that if the

existing levee is not properly repaired by the next flood season, the levee will represent a potential for unacceptable hazard to human life, a significant loss of property, or significant economic hardship.

1.5. NEPA Requirements

As the federal Action Agency for this project, the Corps is required by the National Environmental Policy Act (NEPA) (40 CFR § 1500 et. seq.) to assess the effects to the human environment of proposed agency actions, determine the significance of those effects, and coordinate with other agencies, Tribes, and the interested public in that assessment. The Corps has implemented NEPA through its ER 200-2-2 regulation. This EA has been prepared in accordance with this regulation, which allows for description of project features and an analysis of potential environmental affects for public disclosure. Comments on the proposed project will be taken and incorporated as appropriate.

2. Alternatives

Multiple alternatives were considered including the No-Action Alternative, the Non-Structural Alternative, and the Repair the Damage Alternative (the recommended plan). In order for any alternative to be acceptable for consideration it must meet certain objectives. The alternative must afford flood protection similar to the rest of the levee segment, it must be economically justified, it should be environmentally acceptable, and minimize costs for both the public sponsor and the Federal government.

2.1. Alternative 1- No Action Alternative

The No Action alternative consists of allowing existing damage and associated repairs to remain in place. The No-Action alternative would leave the levee in its current damaged condition. This alternative was not considered further because of the high potential of flood damages to the protected public infrastructure specifically the railroad bridge owned and operated by Burlington Northern. It is estimated that damages sustained to the railroad bridge from the previous flood event exceeded \$100,000. Further erosion and loss of flood protection has been largely arrested through the flood fight actions but normal engineering design and environmental features were not incorporated because of flood flows and site conditions present at the time of the flood. As such, the levee remains subject to excessive erosion and scour eventually resulting in additional emergency actions or a breach of the levee. Long term sustainability and protection at this location requires proper rehabilitation of the existing condition and therefore, the no action alternative is dropped from consideration.

2.2. Alternative 2- Non Structural Alternative

The Non-Structural alternative would relocate all existing structures, utilities, and relocate public facilities. The costs associated with relocating or floodproofing development within the potential inundation area behind the levee would significantly exceed the costs associated with repairing the levee and were not considered further.

¹ Personal communications with John Wagner, representative of Burlington Northern Railroad on July 5th, 2007.

2.3. <u>Alternative 3- Rehabilitate the Damaged Levee (Preferred Alternative)</u>

The Recommended Plan is to repair the downstream segment of the Callahan Creek levee to its pre-flood condition. The recommended plan consists of reestablishing a weighted toe and replacing lost armor rock where required. If available, large woody debris will be placed adjacent to the project to help re-establish channel complexity along the bank and aquatic habitat within the project site. Toe rock placement would occur at or below the ordinary high water mark. All work will be conducted within the pre-existing levee structure footprint, substantially similar construction methods and materials. The pre-flood levee profile and orientation will not be substantially altered. Drawings are included as Appendix B.

Equipment utilized would be similar to those employed during normal bankside armoring projects and likely to include a hydraulic excavator, dump truck(s), and bulldozer. Any nighttime operations would require a temporary light plant. Construction is expected to occur within the July 1 – August 31, 2008 work window established by the US Fish and Wildlife Service and corroborated by the Montana Department of Fish, Wildlife and Parks (FWP) as a time when juvenile salmonids are least likely to be in the area. Construction vehicles would access the site by the existing road located on top of the levee. Construction vehicles would stage in the field on the backside of the levee, away from the river. Work is expected to take approximately 10-14 working days.

3. Existing Conditions

3.1. Elements of the Natural Environment

3.1.1. Geology/Soil

The Northern Rocky Mountains were formed by extensive folding and thrust-faulting of a series of metamorphic and sedimentary rocks. Glacial action profoundly altered the valleys of northern and eastern sections of the northern Rockies. Except for the relatively broad, flat valleys where the terrain is moderate such as along the Kootenai River valley, the greater project area is typified by narrow valleys and rugged steep slopes with frequent rock outcroppings. Bedrock is chiefly folded and faulted crustal blocks of metamorphosed, sedimentary rock materials of the Precambrian Belt series—erosion-resistant siliceous argillites, quartzites, and impure limestones that have been subjected to low-grade metamorphism. Granitic intrusions (sills, stocks, and batholiths) occur throughout the subbasin (Kootenai Tribe of Idaho and MtFWP, 2004). Boulder and cobble sized substrates characterize the project area bedload.

The area has a rich history of mining for precious metals and commercial placer mines for precious metals and vermiculite. Several mines were located in Callahan Creek including the Snowstorm mine but of particular note are the vermiculite mines found in the nearby hills and around the City of Libby, Montana. These mines extracted vermiculite over the years and were found to contribute to human health hazards within Libby, Montana. Rocks and building materials containing vermiculite and its derivatives were used throughout the region for various reasons including flood control. In 1999, rocks from an existing mine containing vermiculite

were placed for flood control purposes on Callahan Creek. Some of this material may have migrated down during high flows to the current project location.

3.1.2. Water Quality

Callahan Creek is an eight mile long mountain stream that originates above the city of Troy, Montana. Callahan Creek empties into the Kootenai River at RM 186.4 (MDNRC, 1984). Callahan Creek flows average 136 cfs on an average annual basis. Streamflow patterns in the basin are typical for mountain streams in northern Montana with snowpack driving the heaviest flows in the spring months. Summer flows in Callahan Creek can drop substantially from the annual average sometimes causing a reduction in wetted width.

3.1.3. Plant Communities

Portions of the Callahan Creek levee not protected by rock are exposed to colonization by grasses, weeds and woody riparian vegetation. The existing vegetative community consists primarily of sparse grasses with intermittent clusters of native deciduous plants between 3 and 5 feet high. There are approximately 6 willow bushes within the project footprint. A mixed cottonwood and coniferous stand is located on the landward side of the levee.

3.1.4. Fish Resources

The Callahan Creek system is inhabited by native fish species including the redband rainbow trout, longnose dace, mountain whitefish, rainbow trout, sculpin, westslope cutthroat trout and bull trout (Muhlfeld, 1999), (Walters. 2005). The project reach provides a migration corridor for all fish species requiring access between the reaches of Callahan Creek and the Kootenai River. Resident fishes use the creek mainstem and its branches as spawning habitat. Juvenile rearing could take place within most accessible reaches of Callahan Creek.

Bull trout present in the system spawn upstream of the project area (Walters, 2005). Bull trout spawning is not believed to occur in proximity to the project site because of the high variability of flow velocity and large substrate sizes. Flow velocity across the levee face is high during the spring run-off. The levee face may become dry during the late months of summer. Fish species likely utilize areas of moderate to slow water upstream or downstream from the project. Sturgeon do not occur at the project site. The project is located above Kootenai Falls and within a tributary of the Kootenai River making conditions unfavorable for juvenile or adult sturgeon.

3.1.5. Wildlife

Wildlife presence in the project area is considered typical of non urban areas of western Montana. Mule deer, white-tailed deer, coyote, fox and small furbearers such as raccoon and opossum reside in riparian areas and near outbuildings. Large carnivores such as cougar and black bear are present in the greater Callahan Creek watershed but infrequent visitors to the project area due to moderate levels of human activity and traffic. Bird life includes raptors such as the bald eagle and red tailed hawk. Waterfowl are frequently observed flying along the nearby Kootenai River and possibly nest in the riparian areas around the project. Small mammals may feed on existing vegetation or take temporary shelter in the rocks.

3.1.6. Threatened and Endangered Species

Five species protected under the Endangered Species Act of 1973 (16 USC 1531-1544) potentially occur in the project vicinity. The USFWS was contacted to determine which ESA species are likely to be found in the project area (Table 1). The following sections briefly summarize relevant life history information for the protected species; synthesizes current knowledge on the presence and utilization of the project and action areas by these species, and then evaluates how the proposed project may affect the species concluding with a determination of effect. Further detail on ESA listed species is found in Section 4.0.

Table 1. Protected Species Potentially Occurring in the Project Vicinity

Species in Boundary County	Federal Status	Presence in the Action Area
Gray wolf (Canis lupus)	Endangered	Absent from the action area. No suitable habitat. Nearest presence is more than 5 miles outside of the action area.
Grizzly bear (Ursus arctos horribilis)	Threatened	Absent from the action area. No suitable habitat. Nearest presence is more than 5 miles outside of the action area.
Canada lynx (Lynx canadensis)	Threatened	Absent from the action area. Occurs at elevations above 4,000 feet in forested habitats. No suitable habitat. Nearest presence is more than 5 miles outside of the action area.
Kootenai River white sturgeon (Acipenser transmontanus)	Endangered	Documented in the Kootenai River below Kootenai Falls.
Bald eagle (Haliaeetus leucocephalus)	Protected under the Bald Eagle Protection Act	Present in the action area but no nests are located within 660 feet of the project area.
Bull trout (Salvelinus confluentus)	Threatened	Documented in the Kootenai River and Callahan Creek.

Gray Wolf

The gray wolf is listed as an endangered species in Montana and can utilize a broad spectrum of habitats provided there is an abundance of prey (generally ungulates), and that suitable denning and rendezvous sites exist away from human disturbance. The availability of prey may be the primary factor in determining habitat suitability (Stevens and Lofts 1988). Den sites are most commonly burrows in sandy soils, but can be located in a variety of settings from downed logs and hollow trees to rock caves. Rendezvous sites tend to be near a source of open water in small meadows with limited visibility.

Gray wolf packs are generally small in the habitats surrounding Troy Montana with pack sizes between 2 and 8 individuals (USFWS, 2006). Gray wolf pack #23 is the closest pack to the

project area with a core range generally within the undisturbed forests to the north and northeast of the project site.

Grizzly Bear

The grizzly bear was listed as threatened by the USFWS in 1975. Historically, the grizzly bear occurred from the mid-plains west to the coast of California and south into Texas and Mexico. Currently, grizzly bears remain in only five areas in the conterminous United States: the Greater Yellowstone Ecosystem, the Northern Continental Divide, the Cabinet-Yaak area, the Selkirk Mountains, and the Northern Cascade Mountains. Two additional areas, the San Juan Mountains in Colorado, and the Selway-Bitterroot Mountains in Idaho, may also support grizzly bears (USFWS 1993). The spatial and temporal distribution of food has a pronounced influence on grizzly bear movements. In general, grizzlies seek lower elevations and drainage bottoms upon emergence from the den where ungulate winter ranges and new plant growth are most abundant. Through spring and early summer, the bears will follow plant growth back up to higher elevations. Thus, an abundant and varied food supply and large tracts of land providing relative isolation and freedom from human encroachment are important components of grizzly bear habitat.

Cover is another important component of grizzly bear habitat. Although grizzly bears occur most often in a mosaic of forested habitat interspersed with open parks for foraging, the majority of locations of radio-collared bears are from dense forest habitat. In addition, the vast majority of grizzly bear bedding sites are in forest habitats less than 2 yards from a tree (USFWS 1993).

Denning habitat is an essential component of grizzly bear habitat because grizzly bears do not enter true hibernation (body temperature remains constant in grizzly bears during hibernation). Bears have been documented to abandon denning sites in response to disturbance. Dens are excavated from September to November, typically on steep slopes where wind and topography cause large accumulations of deep snow. Den sites usually occur at higher elevations well away from development and human activity (USFWS 1993).

The mountains to the north of Troy, Montana contain suitable habitat for Grizzly Bear and lies within the greater Selkirk/Cabinet/Yaak Grizzly Bear recovery zones. In 1999, a female grizzly bear and her 2 cubs were found killed, presumably by another bear in the 17 Mile drainage 15 miles north of Troy, Montana (Kasworm, 1999).

Canada Lynx

Canada Lynx have been documented, historically and currently, throughout the Rocky Mountains of Montana, from the Canadian Border through the Yellowstone area (Ruediger et al., 2000). Lynx occur in mesic coniferous forests that have cold, snowy winters. In the western U.S., most lynx occurrences (83%) are associated with Rocky Mountain Conifer Forest, and most (77%) occur within the 1,500-2,000 m (4,920-6,560 ft) elevation zone (McKelvey et al., 2000). Primary vegetation that contributes to lynx habitat is lodgepole pine, subalpine fir, and Engelmann spruce (Aubry et al., 2000). In extreme northern Idaho, northeastern Washington, and northwestern Montana, cedar-hemlock habitat types may also be considered primary vegetation. Secondary vegetation that, when interspersed within subalpine forests, may also contribute to lynx habitat, includes cool, moist Douglas-fir, grand fir, western larch, and aspen

forests. Dry forest types (e.g., ponderosa pine, climax lodgepole pine) do not provide lynx habitat.

Lynx seem to prefer to move through continuous forest, and frequently use ridges, saddles, and riparian areas (Koehler 1990, Staples 1995). Lynx require cover for stalking and security, and usually do not cross openings wider than 100 meters (Koehler and Brittell 1990).

Canada lynx use of the project area is most likely nonexistent. This project lies in close proximity to well traveled highways and rural, agricultural, and industrial development. The summer construction season coincides with the least use of low elevation habitats by lynx. The short duration and lack of long term impacts to habitat or prey resources of lynx further reduce any potential for effect should they be present but undocumented.

Kootenai River White Sturgeon

The Kootenai River population of white sturgeon inhabits and migrates freely in the Kootenai River from Kootenai Falls in Montana downstream into Kootenay Lake, British Columbia (B.C.), Canada (USFWS 1999). The Kootenai River population of white sturgeon is one of 18 land-locked populations of white sturgeon found in the Pacific Northwest. It is restricted to approximately 168 miles (270 kilometers) of the Kootenai River in Idaho and Montana and Kootenay Lake in British Columbia, Canada, primarily upstream from Cora Linn Dam at the outflow from Kootenay Lake (USFWS 1999). The Kootenai River population has been declining since the mid-1960. By 1997 the population was estimated to be approximately 1,468 wild fish with few individuals less than 25 years of age (USFWS, 1999). Since that time, the wild population has been augmented with the release of nearly 2,800 hatchery-reared juvenile white sturgeon from the Kootenai Tribal Hatchery in Bonners Ferry, Idaho and approximately 2 miles downstream of the project site (USFWS, 1999).

White sturgeon utilize the Kootenai River in reaches below Kootenai Falls. Kootenai Falls at river mile 193 is considered the upstream population boundary the white sturgeon (Hallock, 2006). In 2000, the Idaho Department of Fish and Game (IDFG) estimated that that there were about 760 adult sturgeon remaining in the Kootenai River population (Paragamian et al., 2006). This is down from an estimated 5,000 to 6,000 adults in the early 1980s. These adults are now being lost to natural causes at the rate of 9 percent per year, leading to a 2005 population estimate of fewer than 500 adults (Paragamian et al., 2006). Based on recently revised aging information, females are not expected to reach sexual maturity until 16 to 35 years of age (Devore et al. 1995). Thus, there is increasing urgency in restoring the spawning and incubation habitat to again allow the sturgeon to recruit naturally and to begin rebuilding a healthy population structure. Utilization of Callahan Creek by juvenile and adult sturgeon does not occur.

Columbia River Bull Trout

The Columbia River bull trout population segment was listed as a threatened species by the USFWS in October 1999. Bull trout populations have declined throughout much of the species' range; some local populations are extinct, and many other stocks are isolated and may be at risk (Rieman and McIntyre 1993). Combinations of factors including habitat degradation, expansion

of exotic species, and exploitation have contributed to the decline and fragmentation of indigenous bull trout populations.

Bull trout are known to exhibit four types of life history strategies. The three freshwater forms include adfluvial, which migrate between lakes and streams; fluvial, which migrate within river systems; and resident, which are non-migratory. The fourth and least common strategy, anadromy, occurs when the fish spawn in fresh water after rearing for some portion of their life in the ocean.

The majority of migratory bull trout spawning in Montana occurs in a small percentage of the total stream habitat available. Spawning takes place between late August and early November, principally in third and fourth order streams. Spawning adults use low gradient areas (less than 2%) with gravel/cobble substrate and water depths between 0.1 and 0.6 meters (4 to 24 inches) and velocities from 0.09 to 0.61 m/sec (0.3 to 2.0 ft./sec) (Carnefix, 2003).

Bull trout are apex predators that remain in places where prey is abundant. Bull trout will also follow prey around, such as migrating juvenile salmon. It is unlikely that bull trout would be located adjacent to the project area because the existing conditions (fast water and little cover) are not favorable for juvenile salmonids or other bull trout prey items.

3.1.7. Bald and Golden Eagle Protection Act

The bald eagle was de-listed from the Federal List of Threatened and Endangered Species effective August 8, 2007. In order to assure that bald eagles are not adversely affected, the US Fish and Wildlife Service also published guidance under the Bald and Golden Eagle Protection Act (BGEPA), including a definition of "disturb". The following analysis is prepared to identify whether a permit under the BGEPA would be necessary.

Most bald eagles are capable of breeding at 4 or 5 years of age (USFWS 2007). In the west, breeding and nesting activities occur between January 1 and August 15. Nests are most common near marine shorelines, but also occur on rivers and lakes. The nest is a massive structure (up to 5 feet wide and 3 feet deep) of sizable sticks lines with leaves and grass. The nest is often located near the top of the largest tree and offers an unobstructed view. The nest is usually built within easy flight distance of an ocean, lake, pond, or stream. Eagles may use the same nest for many years, adding to it each season. It is not unusual for a nesting pair to create one or more alternate nests (USFWS 2007). Nesting activity usually occurs in January and February and culminates with laying of one to three eggs. Eggs generally hatch in April and May. Fledglings will typically leave the nest in mid-July, but often remain at or near the nest until mid-August (USFWS 2007).

In winter, bald eagles congregate at specific wintering (non-nesting) sites that are generally close to open water and offer an abundant and readily available food supply with good perch trees and suitable night roosts. When foraging, bald eagles select dominant trees with branches large enough to support their weight as perches to view foraging areas. Night roosts typically offer isolation and thermal protection.

Habitat loss continues to be the most important long-term threat to the bald eagle. Disturbance of nesting areas is another concern. Eagles may abandon a nest due to loud inconsistent noise, such as the type produced by construction activities. Management guidelines, issued by the USFWS to maintain protection after delisting, recommend a buffer of 660 feet from an active nest during the nest season, if the nest site is visible from the project area (USFWS 2007). Outside of the nesting season, activity may be carried out adjacent to a nest; however, communal roost sites should be protected by limiting disturbance (USFWS 2007).

Bald eagles are both year-round residents and winter visitors in northwestern Montana. The project occurs within bald eagle management zone 7 which extends from southern Washington to western Montana and includes the Kootenai Valley and the Pend Oreille River drainage. Zone 7 is one of three primary nesting areas in the state. In 2006, there were 49 active nest territories in zone 7 (IDFG, 2006). Zone 7 includes northwestern Montana. Thirty-two, or 65 percent, of the active nests successfully fledged one or more eaglets compared to a statewide average of 55 percent success (IDFG, 2006).

3.2. Elements of the Built Environment

3.2.1. Land Use and Shorelines

Land use adjacent to and in the vicinity of the project includes transportation, public lands, human residences and small agricultural farms. Mineral and timber extraction also occurs in the greater project area. Human use of Callahan Creek is limited but includes trout fishing, walking and other minor and short-term recreational activities. Callahan Creek has several sections of levee on both sides of its banks near the City of Troy. These structures reduce flood risks to the City of Troy and outlying properties.

3.2.2. Socioeconomics and Aesthetics

Troy, Montana is a rural City near the larger city of Libby, Montana. The City is located on the banks of the Kootenai River and on either side of its' main transportation corridor, Highway 2. The city of Troy has remained a rural community supported largely by the timber industry and seasonal work. The City has dedicated educational and community support facilities.

The City of Troy is surrounded by a mountainous landscape characterized by forest in the upper reaches and agriculture in the lower reaches. Spectacular views of the Cabinet Mountains can be seen from several points. Hiking trails meander through the forested regions to be enjoyed by nature enthusiasts. The Kootenai River and its tributaries are accessible by car and foot. Callahan Creek and the Kootenai River are utilized by anglers, picnickers, and hikers. Local residents use existing trails or levees to walk along the river edge.

3.2.3. Cultural Resources

The Corps determined that the proposed levee rehabilitation is the type of undertaking with the potential to affect properties eligible for listing in the National Register of Historic Places (NRHP) if they exist in the project's area of potential effects (APE). Accordingly, a Corps staff archaeologist contacted the Montana State Archaeologist and requested any information they had on file regarding documented historic properties and prior archaeological assessment surveys in or adjacent to the APE. In addition, a letter soliciting knowledge and concerns was sent to the

Tribal Historic Preservation Officer (THPO) of the Confederated Salish and Kootenai Tribes of the Flathead Reservation (Tribes) on February 19, 2008.

3.2.4. Native American Issues

The project area lies on land ceded to the United States by the Libby Band of the Upper Kootenai Tribes by the Hellgate Treaty of 1855. In return, the United States promised to provide specified goods and services and guaranteed that the Tribes could continue their traditional way of life. To effectuate this guarantee, the Tribes retained exclusive possession of the Flathead Indian Reservation as their homeland and also expressly reserved in perpetuity the right to fish at all of their usual and accustomed places and to hunt, gather plants, build temporary shelters, and pasture stock in open and unclaimed lands located throughout their aboriginal territory. The Kootenai River and its floodplain, including the proposed project location, is one of the places subject to the Tribes' treaty-reserved fishing and hunting rights. The Corps solicited the affected Tribes for any concerns and knowledge of resources of Native American interest. During construction of the levee rehabilitation project, tribal representatives will be asked to provide input and a chance to further express any interests. Corps archeologists will continue coordination with the Tribes to discuss any relevant cultural resources issues should they be identified.

3.2.5. Recreation

Local recreation adjacent to the project site consists of fishing and hiking along Callahan Creek. The levee is adjacent to public land and therefore directed public recreation can occur at the site. In general recreational use of the project site is opportunistic and short-term.

3.2.6. Noise

There are no industrial noise sources, or associated loud noises. There are occasional noises associated with the nearby railroad and the highway through Troy, Montana. These are likely the largest sources of potential noise in the project area.

3.2.7. Air Quality

Air quality in Lincoln County and at the site is regulated by the Montana Department of Environmental Quality. Motor vehicles are the largest source of air pollutants in Lincoln County, although wood-burning stoves contribute during the winter. Problems generally occur during the dry late summer when minimal wind conditions persist for long periods of time, or during mid-winter thermal inversions. Libby, a nearby City is in a "non-attainment" area for particulates (PM-10). Carbon monoxide, and other particulates (PM-2.5) are also of concern.

3.2.8. Environmental Health/ Hazardous and Toxic Waste

Conversations with EPA reveal sources of contamination are present in the general project area. The EPA reports the existence of rock contaminated with asbestos in the lower Callahan Creek basin. This rock was placed along Callahan Creek during previous levee and bank stabilization efforts in 1996. The naturally occurring asbestos is thought to have been introduced into area creeks and rivers through rock placement along the shoreline and possibly during levee rehabilitation projects conducted after the floods of 1996. The proposed action would occur downstream of the closest known site of contamination.

4. Environmental Effects of the Selected Alternative

The following section provides an analysis of impacts potentially occurring as a result of the proposed project. The section focuses on environmental effects of the selected alternative only. Environmental impacts from the no action alternative were found to maintain existing conditions within the natural and built environments. In cases where the no-action alternative is found to result in notable environmental effects, those effects would be described within this section.

4.1. Elements of the Natural Environment

4.1.1. General Setting/Climate

The Corps believes there would be no effects to the climate or general setting of the project. The work would maintain flood damage reduction function of the existing levee to its previous level. Significant impacts to climate related to long-term or excessive emissions of carbon dioxide are not anticipated.

4.1.2. Geology/Soils

The proposed project is a replacement in kind of a pre-existing levee structure. The Corps believes other than ensuring no future erosion at the project site, local geology and soils from this repair project would not be affected by placing additional armor rock at the site. The creek would continue to provide necessary bedload volumes to lower Callahan Creek and the Kootenai River. Substrate sizes through the reach would not be significantly affected.

4.1.3. Water Quality

The Corps expects no significant effects to surface waters from this levee rehabilitation. Lessons from similar rehabilitations show that flows in Callahan Creek would not be significantly altered or result in a shift in the thalweg. Turbidity monitoring during similar rehabilitation projects generally resulted in turbidity not being observed beyond a 300 ft mixing zone. The proposed project would be constructed using similar methods as the 1996 repair so turbidity during construction is not anticipated beyond 300 ft. Any effects from increased turbidity would be temporary and minor. No significant effects are anticipated.

4.1.4. Plant Communities

The rehabilitation of Callahan Creek would require removal of grasses and other vegetative species found waterward of the levee. All work is expected to occur on the waterward side of the levee at or below the ordinary high water mark, leaving the forest community landward of the levee undisturbed. Willows and other beneficial native plants often found in diverse riparian communities are underrepresented within the levee work footprint due to excessive erosion and previous rock placements. Approximately 6 willow plants (3-5ft high) are found within the proposed rehabilitation footprint. The amount of vegetation to be removed at this location is minor and represents no significant loss of streamside habitat. No significant effects are anticipated.

The project site is located waterward of a previously rocked levee structure. The levee is not considered a jurisdictional wetland. Access roads and staging areas are also not located in jurisdictional wetlands. No significant effects are anticipated.

4.1.5. Fish Resources

The levee rehabilitation project would result in placement of rock along the waterward face of an existing levee with heavy equipment. Impacts associated with this type of activity are generally short-term and minor. Long-term impacts to aquatic resources are generally indirect resulting from a simplification of the riparian corridor. This project would result in minor vegetative loss and anticipates offsetting these losses through inclusion of a small woody debris structure into the overall design. This feature would increase habitat complexity, provide prey organisms, and increase shade and refuge for fish.

No significant short-term or long-term impacts are expected. Environmental monitoring of similar small levee rehabilitation projects have resulted in only short-term and minor construction related increases in turbidity; causing insignificant impacts, if any, to otherwise healthy fish species adjacent or downstream of the project.

4.1.6. Wildlife

No significant effects to local wildlife are expected from the proposed project. Local wildlife including raccoon, mule deer and white-tailed deer do frequent the project area and surrounding farms along with other species. These species are primarily nocturnal and are not normally observed at the project site during work hours. Other daytime species are smaller and can readily escape for short periods to nearby riparian areas or timber.

4.1.7. Threatened and Endangered Species

Construction work is scheduled for the USFWS fish window for in-water work, July 1 through August 31. This fish window corresponds to the portion of the year when juvenile and adult bull trout are least likely to be present in the project reach of Callahan Creek. Although some adult fish are likely to be in the river system at the time of construction, the use of the project area in the late summer months is presumed rare as the low flow and elevated temperatures are less preferred by bull trout than more suitable upper reaches of Callahan Creek. Large woody debris (LWD) incorporated into the repair design would provide cover and help increase prey production for bull trout and other salmonids in the future. Instream habitat of Callahan Creek is not likely to affect white sturgeon since they cannot access the area.

The proximity of Callahan Creek to established human settlement and routine disturbances from cars and other commerce is likely to dissuade large carnivores such as the lynx, bear and wolf from visiting the immediate area. A Biological Assessment was submitted to the USFWS in March of 2008 initiating Section 7 consultation on the proposed action. The Corps' intent is to comply with the necessary and appropriate results of the Section 7 consultation even if the consultation remains incomplete upon conclusion of the NEPA process. Table 2 summarizes the effect determinations made in the Biological Assessment for each of the species potentially occurring in the project vicinity.

Table 2. ESA Determination Summary

Species	Effect Determination	Critical Habitat Determination
Gray Wolf	No Effect	
Grizzly Bear	No Effect	
Canada Lynx	No Effect	No effect
Kootenai River White Sturgeon	No Effect	No effect
Bull Trout	Not likely to adversely affect	No Effect

4.2. Elements of the Built Environment

4.2.1. Land and Shorelines

As this project proposed to rehabilitate an existing levee, there should be no observable effect to land and shoreline use or character from this project. No significant effects are anticipated.

4.2.2. Socioeconomics and Aesthetics

Minor disruptions to surrounding aesthetics may be perceived during construction due to movement of vehicles and trucks but no short-term or long term impacts are anticipated. Following construction, the site will look as it did pre-flood and will not affect the socioeconomic outlook of surrounding communities. The proposed project will have no significant affects to existing Socioeconomic or Aesthetic values.

4.2.3. Native American Issues

There would be no harmful effects to Native American issues or interests from this project. The Corps coordinated habitat and cultural resource issues with local Tribes and continues to coordinate on tribal issues.

4.2.4. Recreation

Recreational foot traffic would not be impeded by project construction. The summer disc golf tournament is expected to conclude prior to construction. Normal disc golf activities may be reduced temporarily during construction. The disc golf course will need to be temporarily altered to allow play during construction. Safety concerns will require visitors to remain separated from construction related activities No significant effects are anticipated.

4.2.5. Noise and Air Quality

Noise and air quality impacts in the immediate area of the construction may occur but would be minor, temporary and consistent with previous actions at the project site. Noise and air quality disturbances from the construction, primarily from construction equipment, would not occur at levels considered a significant impact to fish and wildlife resources. The construction noise and air quality disturbances would not cause direct mortality, latent mortality or other physiological damage.

During construction, there would be a temporary and localized reduction in air quality due to emissions from earthmoving equipment and dump trucks operating during soil excavation and disposal activities. These emissions would not exceed EPA's de minimis threshold levels (100)

tons/year for carbon monoxide and 50 tons/year for ozone) or affect the implementation of Montana's Clean Air Act implementation plan. Significant impacts are not anticipated.

4.2.6. Environmental Health/ Hazardous and Toxic Waste

There are no known sources of hazardous or toxic waste within the project area. However, contaminated rock may have migrated down to the proposed site. The levee rehabilitation project would not result in additional contamination. Access to the proposed project would occur on established roads downstream of known contamination. Disturbance to existing rock located in the riverbed is not part of the proposed action. The proposed project is not anticipated to use or move any of these contaminated rocks. No significant affects to environmental health or hazardous and toxic waste from the project are anticipated. The EPA will be notified before construction to provide adequate oversight of site conditions.

5. Cumulative and Indirect Effects

The NEPA defines cumulative effects as the impact on the environment which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions in the project vicinity, regardless of what agency (Federal or non-Federal) or person undertakes such other actions (40 CFR §1508.7).

Past activities at the project site and surrounding areas of Callahan Creek include timber harvest, agricultural conversion, vegetative maintenance and human settlement. These activities resulted in the loss and/or degradation of upland forests, riparian forests and wetlands as well as disconnecting areas from the active flood plain. This resulted in loss of habitats for resident and migratory fish and wildlife species, especially salmonids. In addition, upland forestry practices also resulted in dramatic changes to river sedimentation and hydrologic processes. The most dramatic changes in habitat quality and function likely occurred during the early parts of the 20th century. The trend of habitat loss and conversion continued at a less accelerated rate throughout the remainder of the 20th century and to present day. Current habitat and water quality impacts are generally localized and small in scale, with an overall stable trend though accelerated human growth needs in the area may alter the trend in the near future. The future trend is partially offset by improved forestry, land use practices, flood protection strategies as well as habitat restoration projects, in localized areas.

Timber and agricultural practices are likely to continue throughout the Callahan Creek basin in the foreseeable future, consistent with current practices. There are no known developments proposed for the immediate area, although there may be increased need for erosion control at this site and elsewhere as human activities increase on adjacent lands. Future development may be influenced from improved knowledge of river systems and processes and reduce reliance upon flood control projects elsewhere in the basin.

The current project is located in converted timber land, which would not result in additional riparian forest losses. The project would continue to constrain active flood plain migration within the affected reach. Impact avoidance and reduction efforts would further reduce the extent of short and long term effects.

Given the extent of past adverse impacts, the proposed project would result in a minor loss of active floodplain area. When evaluated in the context of past, present, and reasonably foreseeable actions, the proposed project would not result in significant cumulative effects to Callahan Creek.

Indirect effects are effects to the human and ecological environment that are incidental to the proposed project and not as a direct effect of construction or maintenance. Indirect effects from the proposed project are restricted to a loss of recreational use along the levee.

6. Affects Summary

6.1. Avoidance and Minimization.

Adverse impacts are avoided by constructing the proposed project during established in-water work windows and using appropriately sized equipment and materials. Efficient work scheduling will reduce the length of construction and associated disturbances. Potential adverse impacts can also be minimized using on-site methods. Construction best management practices (BMPs) as suggested by the Montana State Department of Ecology during previous rehabilitations and flood fights would be included during the construction to minimize potential impacts. See Table 3.

Table 3. BMPs Implemented During Construction

- 1. Equipment used near the water would be cleaned prior to construction.
- 2. Work would be conducted during a period of low flow.
- 3. Biodegradable hydraulic fluids would be used in machinery where appropriate.
- 4. Refueling would occur on the backside of the levee.
- 5. Construction equipment shall be regularly checked for drips or leaks.
- 6. At least one fuel spill kit with absorbent pads would be onsite at all times.
- 7. Drive trains of equipment would not operate in the water.
- 8. At least one biologist would remain available for oversight during construction.
- 9. Water quality would be monitored during construction.

6.2. Unavoidable Effects.

Potential unavoidable adverse effects associated with this project include:

- (1) minor temporary increases in river turbidity,
- (2) temporary dislocation of resident fish to other parts of the river channel
- (3) temporary and localized increase in noise, which may disrupt wildlife in the area, as well as causing some disturbance to local residents,
- (4) temporary and localized disruption of, and increase in, local traffic by construction vehicles

- (5) loss of wildlife habitat due to removal of vegetation with within the footprint of the repair
- (6) adverse impacts to fish habitat (reduced shade, decreased organic input, lack of refuge) by way of riparian removal

7. Legal, Policy, Regulatory Constraints/Compliance and Relationship to other Plans

Compliance with the following laws and regulations are required for the proposed action:

Table 4. Environmental Compliance Summary

Law/Policy/Regulation- Federal Acts	Compliance Action	
American Indian Religious Freedom Act	Satisfied- No effect	
Bald and Golden Eagle Protection Act	Satisfied- Determination of no harm.	
3. Clean Air Act (Pl 91-604)	See section 4.2.5 of this document	
4. Endangered Species Act (Sec 7)	BA submitted to USFWS. Consultation in process. Exempt per section 404(f)(1)(B) of the Clean Water Act. Emergency reconstruction of recently damaged parts, of currently serviceable structures such as levees (33CFR 323.4)	
5. Federal Water Pollution Control Act (§ 401 & 404)		
6. Federal Water Project Recreation Act	Satisfied- No effect	
7. National Environmental Policy Act	This document: FONSI will be signed after consolidation of comments within final EA, if appropriate.	
8. American Graves Protection and Repatriation Act (NAGPRA) (25 U.S.C. 3001)	Consultation Initiated- Coordination with affected tribes in process.	
9. National Historic Preservation Act (16 USC 470)	Coordination with SHPO in process.	
10. Rivers and Harbors Act of 1899	No effect	
Law/Policy/Regulation- Other	Compliance Action	
1. Executive Order 11990 Protection of Wetlands	No effect.	
2. Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations	Addressed in the EA.	
3. Executive Order (E.O.) 11988 Flood Plain Management	Satisfied – no additional damage to or building within the floodplain will occur	
4. E.O. 12898 Environmental Justice in	Satisfied –coordination with local Tribe	

Minority populations	initiated and ongoing throughout project. Project not a permanent facility requiring a siting study.
5. Executive Order 13007, Native American Sacred Sites, May 24, 1996	Consultation Initiated- Coordination with affected tribes in process.

7.1. Federal Statutes

7.1.1. American Indian Religious Freedom Act

The American Indian Religious Freedom Act of 1978 (AIRFA) (42 U.S.C. 1996) establishes protection and preservation of Native Americans' rights of freedom of belief, expression, and exercise of traditional religions. Courts have interpreted AIRFA to mean that public officials must consider Native Americans' interests before undertaking actions that might impact their religious practices, including impact on sacred sites.

No alternative is expected to have any effect upon Native Americans' rights of freedom of belief, expression, and exercise of traditional religions. There are no known cultural resources, or any sacred sites, at the project locations.

7.1.2. Bald and Golden Eagle Protection Act

The BGEPA (16 U.S.C. 668-668d) prohibits the taking, possession or commerce of bald and golden eagles, except under certain circumstances. Amendments in 1972 added to penalties for violations of the act or related regulations.

No take of either bald or golden eagles is likely through any of the actions discussed in this EA; since there are no known nests near any of the work locations.

7.1.3. Clean Air Act

The Clean Air Act (CAA) (42 U.S.C. 7401 et seq.), amended in 1977 and 1990, was established "to protect and enhance the quality of the nation's air resources so as to promote public health and welfare and the productive capacity of its population." The CAA authorizes the EPA to establish the National Ambient Air Quality Standards to protect public health and the environment. The CAA establishes emission standards for stationary sources, volatile organic compound emissions, hazardous air pollutants, and vehicles and other mobile sources. The CAA also requires the states to develop implementation plans applicable to particular industrial sources.

This EA analyzes effects on air quality from the two alternatives; effects would be minimal, and the proposed project is exempted from the conformity requirements of the CAA because of the de minimis levels of emissions.

7.1.4. Endangered Species Act

The ESA (16 U.S.C. 1531-1544) establishes a national program for the conservation of threatened and endangered species of fish, wildlife, and plants and the habitat upon which they depend. Section 7(a) of the ESA requires that Federal agencies consult with the USFWS and

NOAA Fisheries, as appropriate, to ensure that their actions are not likely to jeopardize the continued existence of endangered or threatened species or to adversely modify or destroy their critical habitats.

The EA, and embedded language on effects determinations concerning species listed or proposed for listing under the Endangered Species Act, addresses effects on those species and their critical habitat. Coordination with the US Fish and Wildlife Service was initiated through the submission of a Biological Assessment on 24 March 2008.

Due to the urgent nature of completing this rehabilitation project prior to the oncoming flood season, the Corps may proceed with construction prior to completion of the consultation with the Services pursuant to the "emergency circumstances" provisions of the ESA consultation regulation, and complete ESA consultation after the fact rather than delaying the urgent work in order to complete ESA consultation before construction begins. The applicable regulation is set out at 50 CFR Part 402.05 (a) and (b) and provides as follows:

- (a) Where emergency circumstances mandate the need to consult in an expedited manner, consultation may be conducted informally through alternative procedures that the Director determines to be consistent with the requirements of section 7(a)-(d) of the Act. This provision applies to situations involving acts of God, disasters, casualties, national defense or security emergencies, etc.
- (b) Formal consultation shall be initiated as soon as practicable after the emergency is under control. The Federal agency shall submit information on the nature of the emergency actions(s), the justification for expedited consultation, and the impacts to endangered or threatened species and their habitats. The Service will evaluate such information and issue a biological opinion including the information and recommendations given during emergency consultation.

Though consultation is not complete, the Corps has reached an agency determination, based on the best factual and technical information available at the time of decision, and following preliminary coordination with the Services, that the impacts are not likely to adversely affect ESA-listed species. The Corps believes that this work is not likely to jeopardize the continued existence of the listed species, by reducing appreciably the likelihood of either the survival or recovery of the listed species; nor does the work constitute an adverse modification of critical habitat

The Corps will also commit to fully funding and performing all Reasonable and Prudent Alternatives necessary to avoid the likelihood of jeopardy to listed species or destruction or adverse modification of designated critical habitat, as well as Reasonable and Prudent Measures (RPMs) necessary and appropriate to minimize the impact of Incidental Take, that are described if a Biological Opinion is received from the Services. This Environmental Assessment will be reevaluated at the time that consultation is complete. If necessary, this EA will be supplemented with necessary and applicable corresponding modifications to the scope and/or nature of the project, the procedures and practices used to implement the project, and/or the type and extent of compensatory mitigation associated with the project.

7.1.5. Federal Water Pollution Control Act

The Federal Water Pollution Control Act (33 U.S.C. 1251 et seq.) is more commonly referred to as the Clean Water Act (CWA). This act is the primary legislative vehicle for Federal water pollution control programs and the basic structure for regulating discharges of pollutants into waters of the United States. The CWA was established to "restore and maintain the chemical, physical, and biological integrity of the nation's waters." The CWA sets goals to eliminate discharges of pollutants into navigable waters, protect fish and wildlife, and prohibit the discharge of toxic pollutants in quantities that could adversely affect the environment.

This EA evaluates possible impacts to water quality, primarily with respect to suspended solids, turbidity and temperature. There are no other water quality effects anticipated. The project is exempt per Section 404(f)(1)(B) of the Clean Water Act, which allows for emergency reconstruction of recently damaged parts of currently serviceable structures such as dikes, dams, levees, groins, riprap, breakwaters, causeways, bridge abutments or approaches, and transportation structures. For each of the seven rehabilitation sites, the proposed work will not result in changes to the character, scope, or size of the original fill design and occurs within a reasonable period of time after damage occurred. During the April site visit, the Corps concluded that no jurisdictional wetlands are present along the riverward toe, face, or top of the respective levees, and no wetlands will thus be impacted as a result of this project. Because no work subject to Section 404 regulation is being conducted, a Section 401 certification is not required.

7.1.6. Federal Water Project Recreation Act

In the planning of any Federal navigation, flood control, reclamation, or water resources project, the Federal Water Project Recreation Act, as amended (16 U.S.C. 460(l)(12) et seq.) requires that full consideration be given to the opportunities that the project affords for outdoor recreation and fish and wildlife enhancement. The Act requires planning with respect to development of recreation potential. Projects must be constructed, maintained, and operated in such a manner if recreational opportunities are consistent with the purpose of the project.

This EA assesses impacts of alternative actions on recreation, but the proposed actions are not intended to provide recreational benefits. The EA also addresses effects on fish and wildlife, and the preferred alternative is not likely to adversely affect threatened and endangered fish species, nor should it negatively impact other fish species.

7.1.7. National Environmental Policy Act

The NEPA (42 U.S.C. 4321 et seq.) provides a commitment that Federal agencies will consider the environmental effects of their actions. It also requires that an EIS be included in every recommendation or report on proposals for legislation and other major Federal actions significantly affecting the quality of the human environment. The EIS must provide detailed information regarding the proposed action and alternatives, the environmental impacts of the alternatives, appropriate mitigation measures, and any adverse environmental impacts that cannot be avoided if the proposal is implemented. Agencies are required to demonstrate that these factors have been considered by decision makers prior to undertaking actions. Major Federal actions determined not to have a significant effect on the quality of the human environment are evaluated through an EA. This EA has been undertaken specifically in pursuit of NEPA.

7.1.8. Native American Graves Protection and Repatriation Act

The Native American Graves Protection and Repatriation Act (NAGPRA) (25 U.S.C. 3001) addresses processes and requirements for federal agencies regarding the discovery, identification, treatment, and repatriation of Native American and Native Hawaiian human remains and cultural items (associated funerary objects, unassociated funerary objects, sacred objects, and objects of cultural patrimony). Consistent with procedures set forth in applicable Federal laws, regulations, and policies, the Corps will proactively work to preserve and protect natural and cultural resources, and establish NAGPRA protocols and procedures.

No evidence of Native American graves, human remains or associated cultural items are known or anticipated in the project area.

7.1.9. National Historic Preservation Act

Section 106 of the NHPA (16 U.S.C. 470) requires that Federal agencies evaluate the effects of Federal undertakings on historical, archeological, and cultural resources and afford the Advisory Council on Historic Preservation opportunities to comment on the proposed undertaking. The lead agency must examine whether feasible alternatives exist that would avoid eligible cultural resources. If an effect cannot reasonably be avoided, measures must be taken to minimize or mitigate potential adverse effects.

In accordance with Section 106 of the NHPA, the Corps has prepared a Section 106 compliance report and submitted it to the Washington State Historic Preservation Officer (SHPO), the Snoqualmie Tribe, and the Tulalip Tribe for their review. The Corps requested that the SHPO concur with a determination of No Historic Properties Affected by the proposed action. No cultural resources have been identified in the project area, and no archaeological monitoring is recommended at any of the repair sites.

If, during construction activities, the Contractor observes items that might have historical or archeological value, such observations shall be reported immediately to the Corps construction supervisor so that the appropriate authorities may be notified and a determination can be made as to their significance and what, if any, special disposition of the finds should be made. The contractor shall cease all activities that may result in the destruction of these resources and shall prevent his employees from trespassing on, removing, or otherwise damaging such resources.

7.1.10. Rivers and Harbors Act of 1899

The Rivers and Harbors Act of 1899 regulates structures or work in or affecting navigable waters of the United States including discharges of dredged or fill material into waters of the United States. Structures include without limitation, any pier, boat dock, weir, revetment, artificial islands, piling, aid to navigation or any other obstacle or obstruction.

This action is not in a navigable waterway, and thus does not fall under Sec. 10, concerning construction in navigable waters.

7.2. Executive Orders

7.2.1. Executive Order 11990, Protection of Wetlands

Executive Order 11990 encourages Federal agencies to take actions to minimize the destruction, loss, or degradation of wetlands, and to preserve and enhance the natural and beneficial values of wetlands when undertaking Federal activities and programs.

This EA assesses effects on wetlands and riparian areas.

7.2.2. Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations

Executive Order 12898, dated February 11, 1994, requires Federal agencies to consider and address environmental justice by identifying and assessing whether agency actions may have disproportionately high and adverse human health or environmental effects on minority or low-income populations. Disproportionately high and adverse effects are those effects that are predominantly borne by minority and/or low-income populations and are appreciably more severe or greater in magnitude than the effects on non-minority or non-low income populations.

This EA addresses environmental justice effects of the alternatives it evaluates.

7.2.3. Executive Order 13007, Native American Sacred Sites, May 24, 1996

Executive Order 13007 directs Federal agencies to accommodate access to and ceremonial use of Indian sacred sites by Indian religious practitioners. Agencies are to avoid adversely affecting the physical integrity of such sacred sites and to maintain the confidentiality of sacred sites when appropriate. The act encourages government-to-government consultation with tribes concerning sacred sites. Some sacred sites may qualify as historic properties under the NHPA.

No sacred sites in the project area have been previously reported; however, the Corps sent letters to the Kootenai Tribe and Confederated Salish/Kootenai Tribe on 19 February 2008 soliciting any knowledge or concerns or religious significance for the APEs.

8. Coordination and Comments

A copy of the Project Information Report (PIR) was provided to the following agencies, Tribes and the interested public for public review and comment:

- U.S. Fish and Wildlife Service
- U.S. Environmental Protection Agency
- City of Troy
- Montana Department of Fish, Wildlife and Parks
- Montana Department of Environmental Quality
- Kootenai Tribe
- Confederated Salish/Kootenai Tribe
- U.S. Army Corps of Engineers- Omaha District

During the planning and design of this project, the Corps coordinated with various state, federal, Tribal, and local agencies to discuss design alternatives and potential impacts to the project vicinity. The final PIR was submitted to several agencies for comment. No substantive comments were received. Telephone contacts were made to the USFWS, affected tribes, the State of Montana, EPA and local municipalities to solicit comments. Any comments received were included in this draft EA. A site visit will be conducted prior to construction to confirm site conditions and obtain additional agency comment. This document serves the public coordination mandates under NEPA. Public comments received on this document would be considered and incorporated as appropriate. Current agency contacts are listed in Table 5.

Table 5. Project Coordination Contact List

Agency	Contact	Title
Montana Fish, Wildlife and Parks	Mike Hensler	Habitat Biologist
US Fish and Wildlife Service (USFWS)	Tim Bodurtha	Supervisory Biologist
EPA	Mike Cirian	Project Manager
Kootenai Tribe of Indians	Sue Ireland	Natural Resources Manager
Confederated Salish- Kootenai Tribe	Lynn DuCharme	Natural Resources Manager
Montana Dept of Environmental Quality	Cathy LeCrous	Biologist
US Army Corps of Engineers (NWO)	Allen Steinle	Environmental Protection Specialist
City of Troy	Sandra Johnson	City Planner

9. Conclusion

Based on the above analysis, the proposed 2008 Callahan Creek Levee Rehabilitation Project is not a major Federal action significantly affecting the quality of the human environment and therefore does not require preparation of an environmental impact statement. Because this project would be undertaken pursuant to the "emergency circumstances" provisions of the ESA implementing regulations, and consultation is not yet complete, this Environmental Assessment will be reevaluated when consultation is complete and the EA will be supplemented, and the FONSI modified, as necessary and appropriate in light of the conclusions of the consultation process.

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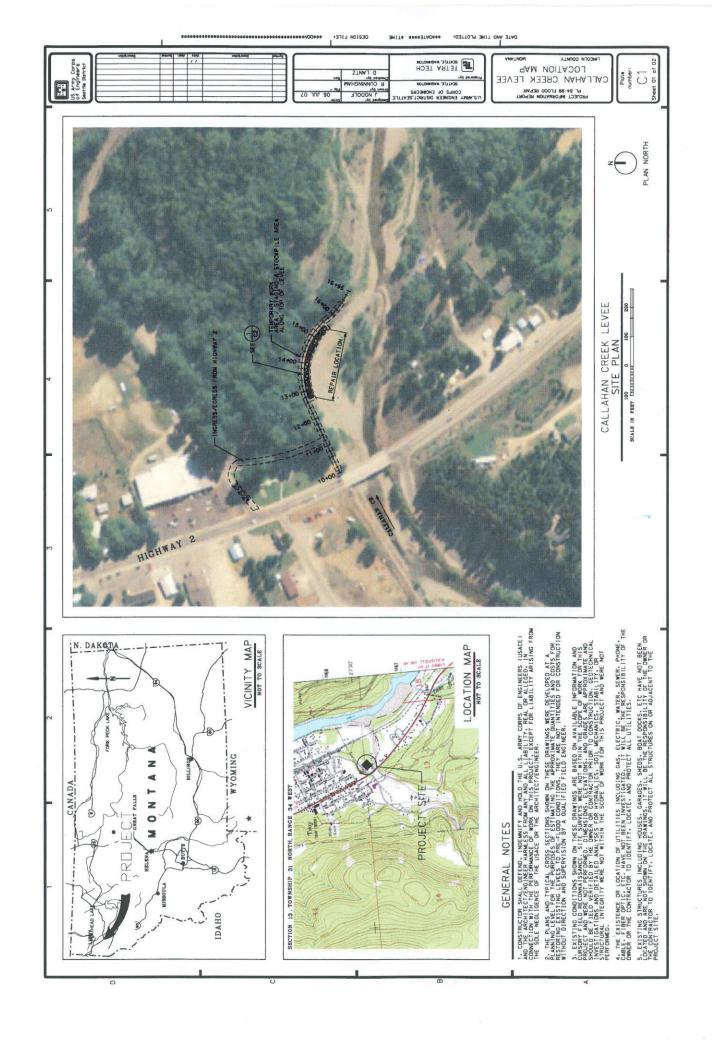
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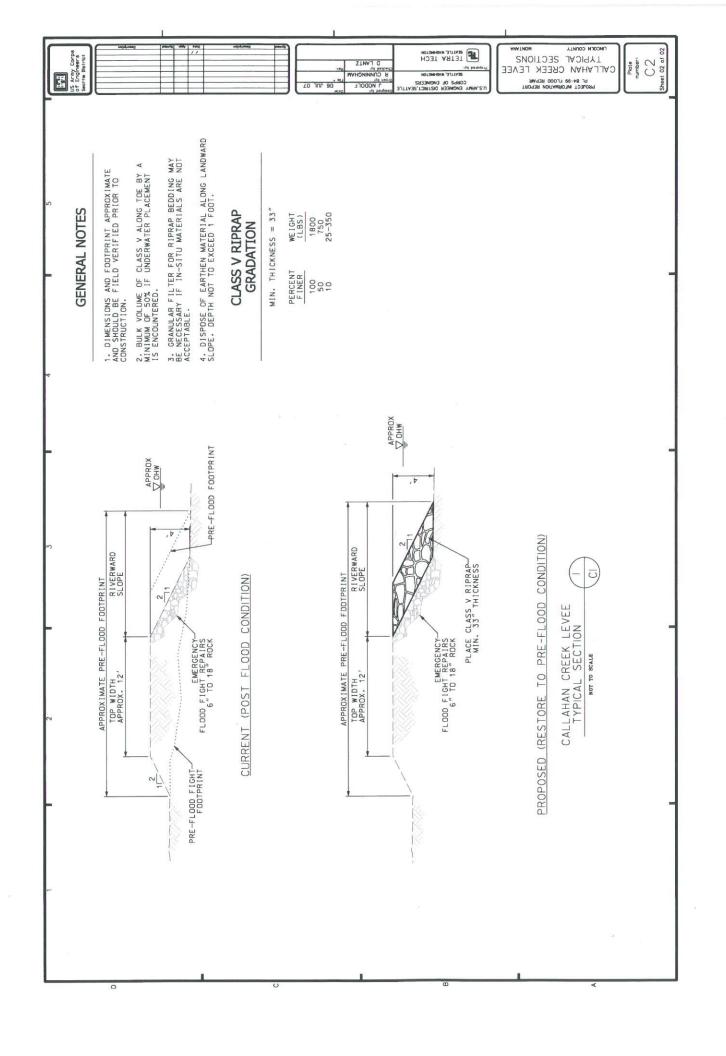
APPENDIX A

Project Vicinity Map



APPENDIX B

Project Drawings



APPENDIX C

Project Photos



Photo 1. Upstream photograph of Callahan Creek levee in area of proposed rehabilitation.

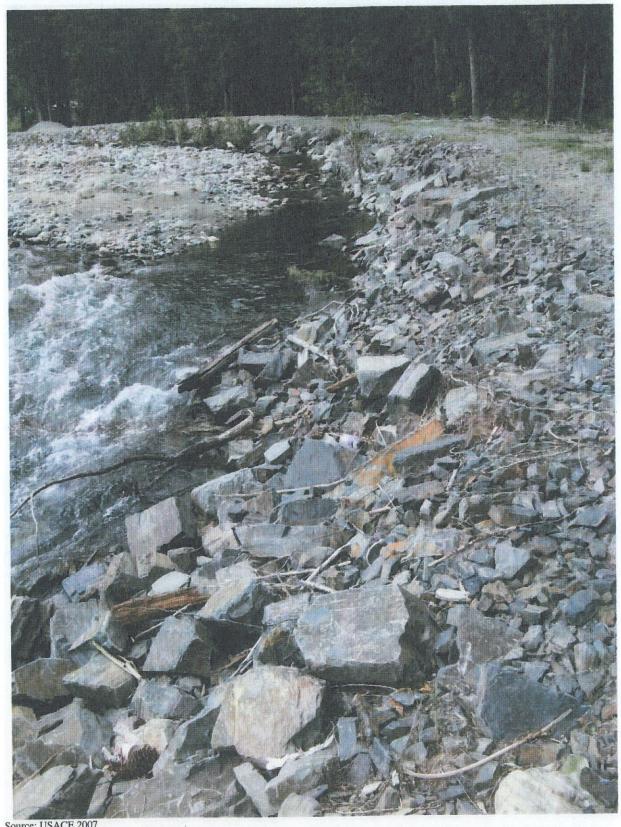


Photo 2. Downstream photograph of Callahan Creek levee in area of proposed rehabilitation.



Photo 3. LWD from 2006 flood fight to be used in rehabilitation project as habitat feature.

APPENDIX D

Public Comments on Draft EA.

APPENDIX E

Finding of No Significant Impact



DEPARTMENT OF THE ARMY

SEATTLE DISTRICT, CORPS OF ENGINEERS P.O. BOX 3755 SEATTLE, WASHINGTON 98124-3755

Environmental Resources Section

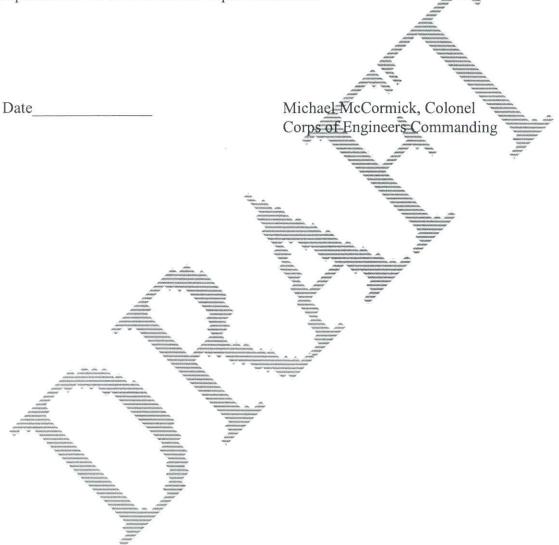
2008 Callahan Creek Levee Rehabilitation Lincoln County, Montana

DRAFT

FINDING OF NO SIGNIFICANT IMPACT

- 1. Background. The Seattle District, U. S. Army Corps of Engineers, has initiated plans to rehabilitate the Callahan Creek levee outside the City of Troy. Montana. During the November 2006 event, a 300 foot segment of left bank levee was overtopped and breached. Emergency repairs were completed by Lincoln County during to seal a breached segment of levee. There is currently 300 linear feet (LF) of levee without sufficient toe material to provide an equivalent pre-flood level of protection at the Callahan Creek levee. The riverward slope is armored with 18 to 24 inch nominal diameter material except where flood fight efforts placed smaller rock ranging from 6 inches to 18 inches nominal diameter.
- 2. Proposed Action. The repair as described in the preferred alternative is to repair a downstream 300 foot segment of the Callahan Creek levee to its pre-flood condition. The recommended plan consists of reestablishing a weighted toe and replacing lost armor rock where required. Repair designs for the levee include placement of some woody debris to help reestablish channel complexity along the bank and aquatic habitat within the project site.
- 3. Impacts Summary. The attached environmental assessment provides an evaluation of the potential environmental impact as a result of repairing the Callahan Creek levee. Impacts from the rehabilitation action are minor and temporary in nature. Specifically, minor vegetation loss will occur in the placement of new toe and levee rock. The levee prism being rehabilitated is not considered high quality spawning habitat or a special aquatic site. Temporary impacts are also expected from noise disturbance created by use of machinery. Air quality impacts will be de minimus. The work will occur within the established fish window to ensure minimal fish impacts. The Corps has consulted with the U.S. Fish and Wildlife Service on findings of No Effect or May Affect, Not likely to Adversely Affect for threatened or endangered species in the area. The Corps coordinated necessary cultural resources investigations and compliance with the Kootenai Tribe, the Confederated Salish/Kootenai Tribe and the Montana State Historic Preservation Officer. No wetlands will be filled or impacted during the rehabilitation of the levee.

4. Conclusion. I have determined that the proposed action is in accordance with the environmental documentation, and that planning for this project complies with all applicable laws, regulations, and agency consultations, including the Clean Water Act and National Environmental Policy Act. Based on the analysis described above and provided in more detail in the accompanying Environmental Assessment, this project is not a major Federal action significantly affecting the quality of human environment, and therefore, does not require preparation of an environmental impact statement.



APPENDIX F

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